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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/649,989	08/27/2003	Vladislav Vashchenko	100-22600 (P05659)	6742	
33402 75	590 11/22/2004		EXAMINER		
LAW OFFICE	ES OF MARK C. PIO	PHAM, LONG			
P.O. BOX 300				D. DED MIN (DED	
PETALUMA,	CA 94953		ART UNIT	PAPER NUMBER	
			2814		
•			DATE MAILED: 11/22/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u>,</u>	<del></del>	lon		
	Application No.	Applicant(s)			
Office Action Comments	10/649,989	VASHCHENKO ET AL.	,		
Office Action Summary	Examiner	Art Unit			
TI MANUAL DATE OF THE CONTROL OF THE	Long Pham	2814			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status			•		
1) Responsive to communication(s) filed on  2a) This action is <b>FINAL</b> . 2b) This  3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.				
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) 14-20 is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1,2,4,5 and 7 is/are rejected.  7) Claim(s) 3,6 and 8-13 is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d)			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>08/28/03 7/19,27/4</u>.</li> </ol>	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other: Labeled draw	ate atent Application (PTO-152)			

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### **DETAILED ACTION**

## Election/Restrictions

1. Applicant's election without traverse of claims 1-13 in the reply filed on 10/01/04 is acknowledged.

#### General Information

Paper copies of cited U.S. patents and U.S. patent application publications will cease to be mailed to applicants with Office actions as of June 2004. Paper copies of foreign patents and non-patent literature will continue to be included with office actions. These cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at <a href="http://www.uspto.gov/ebc/index.html">http://www.uspto.gov/ebc/index.html</a> or 1-866-217-9197 for information on this policy. Requests to restart a period for response due to a missing U.S. patent or patent application publications will not be granted.

The labeled drawing sheet(s) of the present invention are attached to show examiner's understanding of the disclosed and claimed inventions.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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3. Claims 1, 2, 4, 5, and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Sutton (US 4,937,647).

With respect to claims 1 and 2, Sutton teaches a silicon controlled rectifier comprising (see fig. 3 and associated text):

a semiconductor region having:

a buried layer 92 of a first conductivity type (n+) and a dopant concentration;

a first region 94 of a second conductivity type (p) and a dopant concentration;

a second region 90 of the first conductivity type (n-) that contacts the buried layer and the first region, the second region having a dopant concentration that is less than the dopant concentration of the buried layer;

a third region 82 of the second conductivity type (p) formed in the second region, the third region contacting the top surface of the second region; and

a fourth region 62 of the first conductivity type (n) formed in the second region, the fourth region contacting the top surface of the second region and being spaced apart from the third region.

a fifth region 106 of the second conductivity type (p) formed in the second region, the fifth region contacting the top surface of the second region, the fourth region lying between the third and fifth regions.

With respect to claim 4, Sutton further teaches that the fifth region is spaced apart from the buried layer.

With respect to claim 5, Sutton further teaches that the third region is spaced apart form the first region.

With respect to claim 7, Sutton further teaches that the fourth region is spaced apart from the buried layer.

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# Allowable Subject Matter

4. Claims 3, 6, and 8-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 571-272-1714. The examiner can normally be reached on M-F, 7:30AM-3:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

kong Pham

Primary Examiner

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